

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004580

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01M2/02, 2/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01M2/02-2/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 7-201308 A (Matsushita Electric Industrial Co., Ltd.), 04 August, 1995 (04.08.95), Claims; Fig. 1 (Family: none) | 1-4 |
| Y | JP 2001-283795 A (Matsushita Electric Industrial Co., Ltd.), 12 October, 2001 (12.10.01), Claims; Par. No. [0012] (Family: none) | 1-4 |
| Y | JP 2003-7270 A (NOK Kabushiki Kaisha), 10 January, 2003 (10.01.03), Claims; Figs. 3 to 6 (Family: none) | 3, 4 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
02 July, 2004 (02.07.04)Date of mailing of the international search report
20 July, 2004 (20.07.04)Name and mailing address of the ISA/
Japanese Patent Office

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Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 2000-357495 A (Matsushita Electric Industrial Co., Ltd.), 26 December, 2000 (26.12.00), Claims; Fig. 2 (Family: none) | 4 |